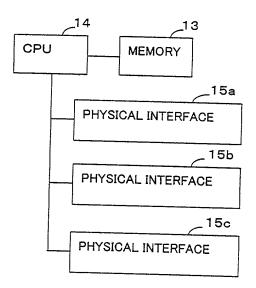


FIG.2



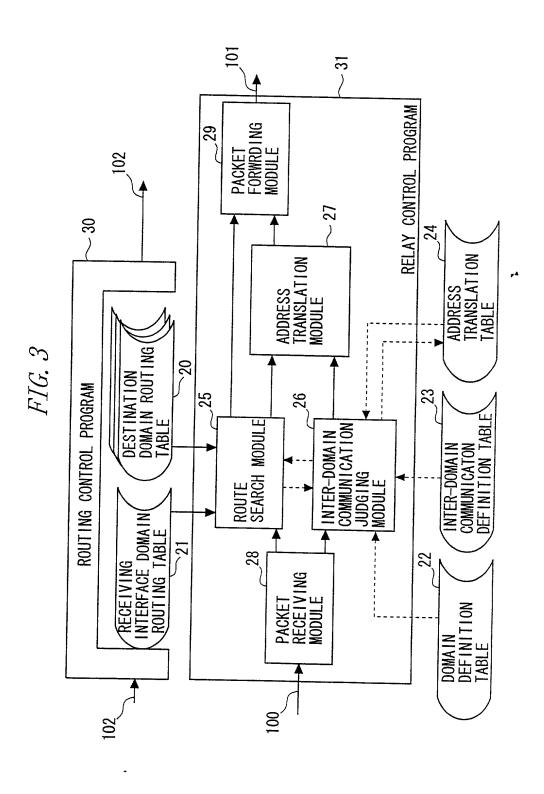
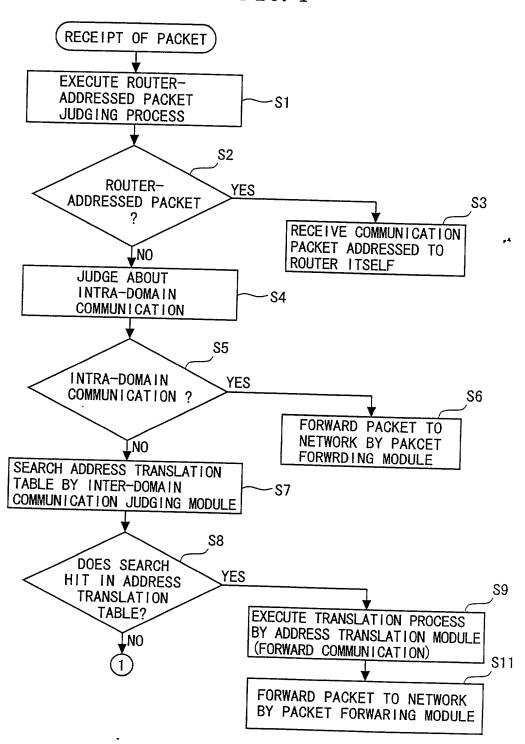


FIG. 4



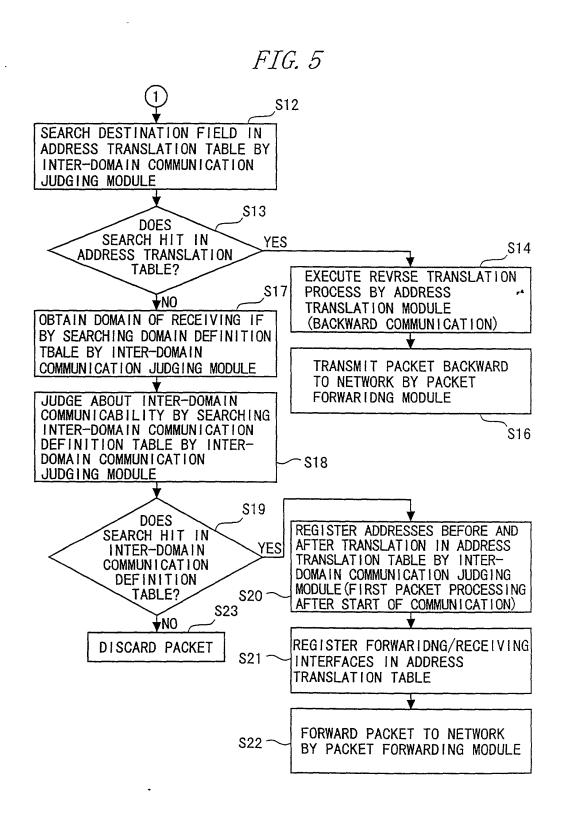


FIG.6

I/F NUMBER	DOMAIN NUMBER
de0	0
de1	1
de2	2
de3	2

COMMUNICABILITY	TRANSLATION	
(1:PERMITTED	RULE	
0:PROHIBITED),		
0	_	ļ
0	-	
1	NAT	
0	-	
1	NAT	١,
1	NAT	
	(1:PERMITTED	(1:PERMITTED RULE 0:PROHIBITED), - 0 - 0 - 1 NAT 0 - 1 NAT

FIG.8

DE0=====	T	T
DESTINATION	NEXT HOP	OUTPUT
NETWORK	CATELLAN	1
	GATEWAY	INTERFACE
100.10.5.0	120.10.4.1	1-0
	120.10.4.1	de0
100.10.6.0	120.10.4.120	de0
100 10 10		deo
120.10.4.0	120.10.4.120	de0
		, 400

FIG.9

DESTINATION	NEXT HOP	OUTPUT INTERFACE
NETWORK	GATEWAY	
10.25.55.0	10.25.55.1	de1
10.25.165.0	10.25.55.165	de1
10.25.166.0	10.25.55.166	de1

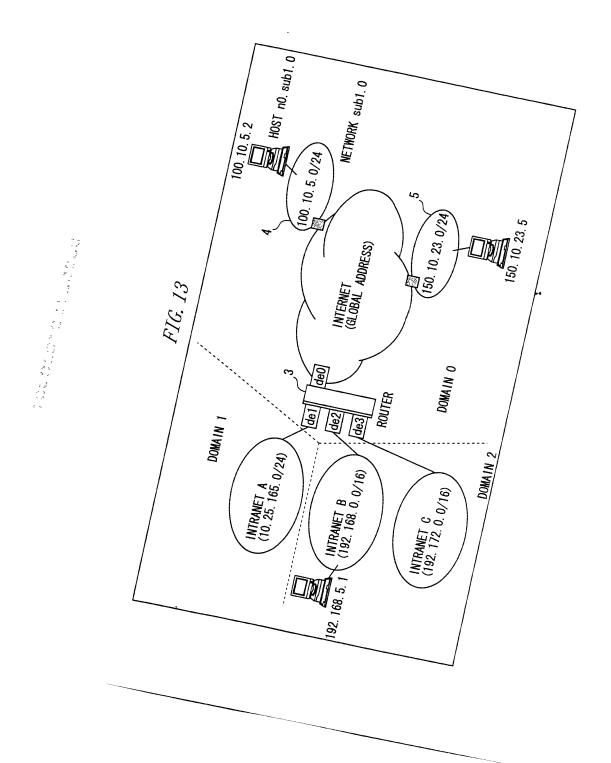
FIG.10

DESTINATION	NEXT HOP	OUTPUT INTERFACE
NETWORK	GATEWAY	
192.168.100.0	192.168.100.1	de2
192.168.250.0	192.168.100.250	de2
192.168.251.0	192.168.100.251	de2
192.172.30.0	192.168.30.1	de3
192.172.38.0	192.168.30.38	de3

FIG 11

REEORE TR	REFORE TRANSI ATION		AFTER TRANSI ATION	ATION	
			701 1 FILE 110 110 E		
SOURCE	SOURCE DESTINATION RECEIVING SOURCE	RECEIVING	SOURCE	DESTINATION	FORWARDING
ADDRESS ADDRESS	ADDRESS	I/F	ADDRESS	ADDRESS	1/F
192.168.5.1 100.10.5.2	100.10.5.2	de2	120.10.4.2	100.10.5.2	de0
192.172.3.1 100.10.6.7	100.10.6.7	de3	120.10.4.3	100.10.6.7	de0

		OLITPLIT	DOMAIN
DESTINATION	NEXT HOP	OUTPUT	DOMAIN
NETWORK	GATEWAY	INTERFACE	NUMBER
100.10.5.0	120.10.4.1	de0	0
100.10.6.0	120.10.4.120	de0	0
120.10.4.0	120.10.4.120	de0	0
10.25.55.0	10.25.55.1	de1	1
10.25.165.0	10.25.55.165	de1	1
10.25.166.0	10.25.55.166	de1	1
192.168.100.0	192.168.100.1	de2	2
192.168.250.0	192.168.100.250	de2	2
192.168.251.0	192.168.100.251	de2	2
192.172.30.0	192.168.30.1	de3	2
192.172.38.0	192.168.30.38	de3	2



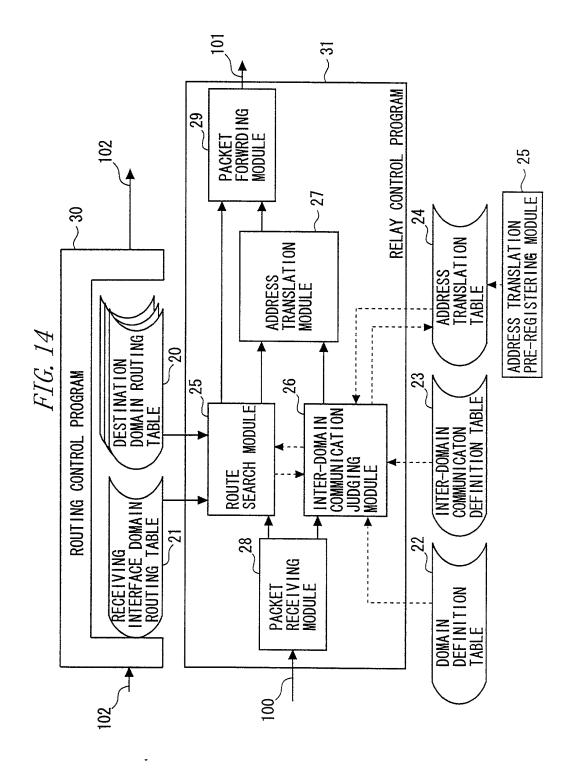


FIG. 15

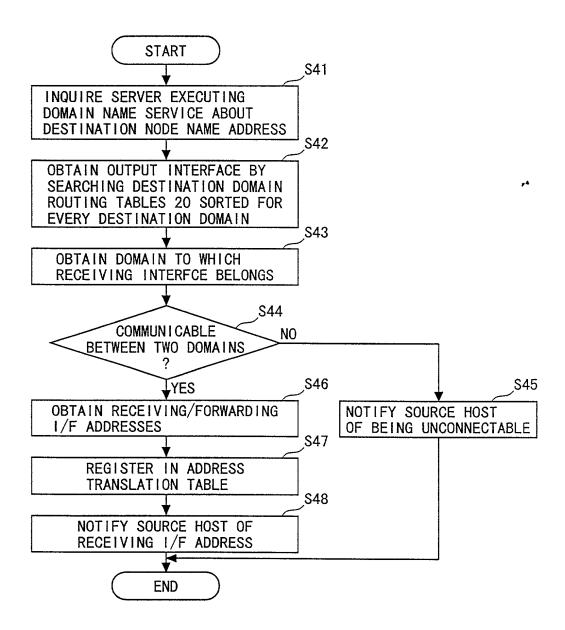


FIG 16

BEFORE TR	BEFORE TRANSLATION		AFTER TRANSLATION	ATION	
SOURCE	SOURCE DESTINATION	RECEIVING SOURCE	SOURCE	DESTINATION FORWARDING	FORWARDING
ADDRESS	ADDRESS ADDRESS	I/F	ADDRESS	ADDRESS	I/F
192.168.5.1	192.168.5.1 192.168.5.2	de2	120.10.4.2	100.10.5.2	de0

,4

FIG. 17 RECEIPT OF PACKET **S1 S31** EXECUTE ROUTER-ADDRESSED PACKET SEARCH ADDRESS TRANSLATION JUDGING PROCESS TABLE BY INTER-DOMAIN COMMUNICATION JUDGING MODULE **S2** S32 YES YES ROUTER-HIT? ADDRESSED PACKET **S36 ↓**NO RECEIVE PAKCET BY ROUTER LNO S33 JUDGE ABOUT **EXECUTE ADDRESS** INTRA-DOMAIN TRANSLATION PROCESS COMMUNICATION BY ADDRESS TRANSLATION MODULE **S**5 FORWARD PACKET TO INTRA-DOMAIN YES S6 NETWORK BY PACKET COMMUNICATION ? FORWRDING MODULE FORWARD PACKET TO NETWORK BY PAKCET S35 NO FORWRDING MODULE SEARCH ADDRESS TRANSLATION TABLE BY INTER-DOMAIN -S7 COMMUNICATION JUDGING MODULE S8 DOES SEARCH YES HIT IN ADDRESS **S9** TRANSLATION TABLE? EXECUTE TRANSLATION PROCESS BY ADDRESS TRANSLATION MODULE ON, (FORWARD COMMUNICATION) **S11** FORWARD PACKET TO NETWORK BY PACKET FORWARING MODULE

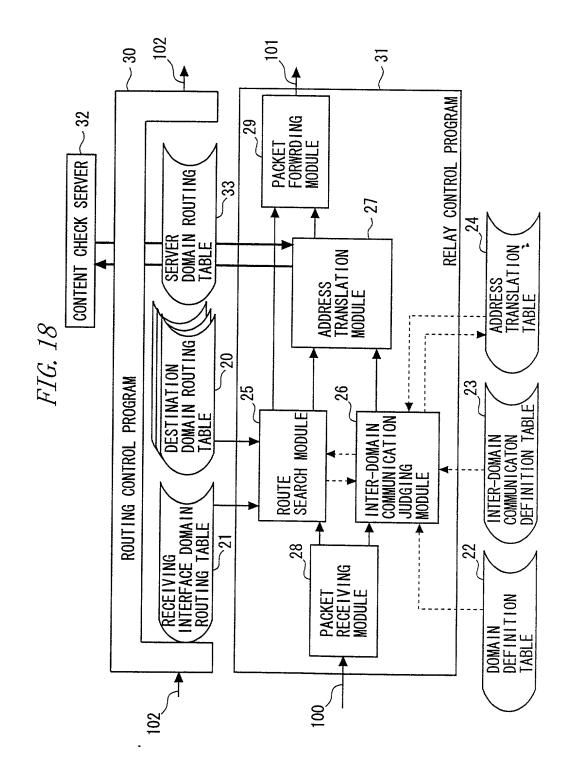
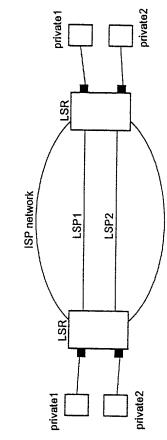
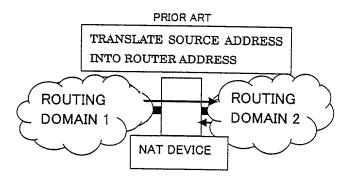


FIG. 19

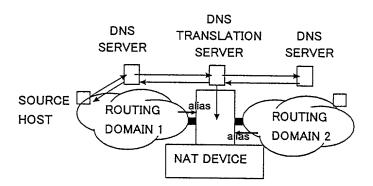
PRIOR ART



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PRIOR ART



PRIOR ART

